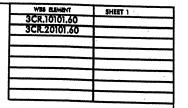
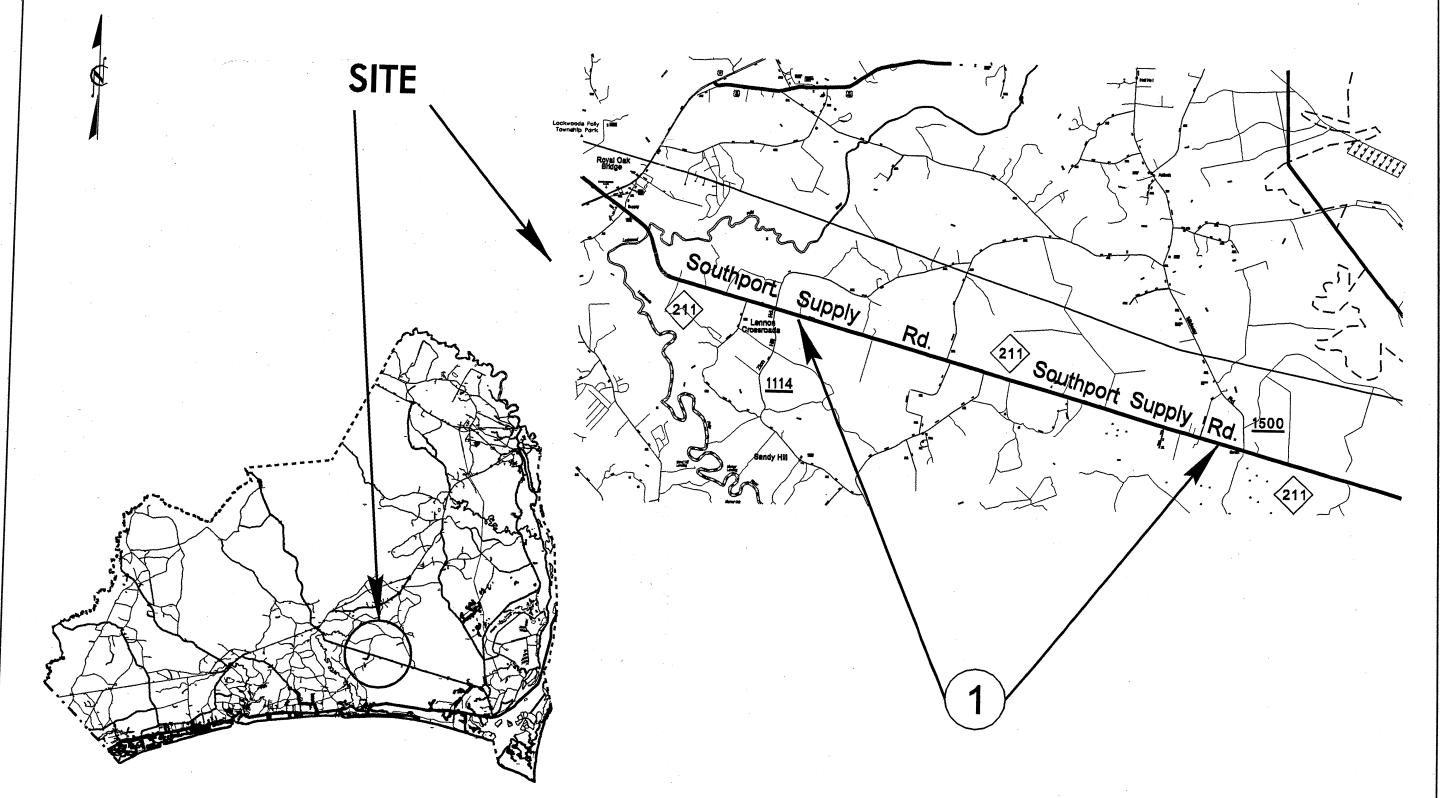
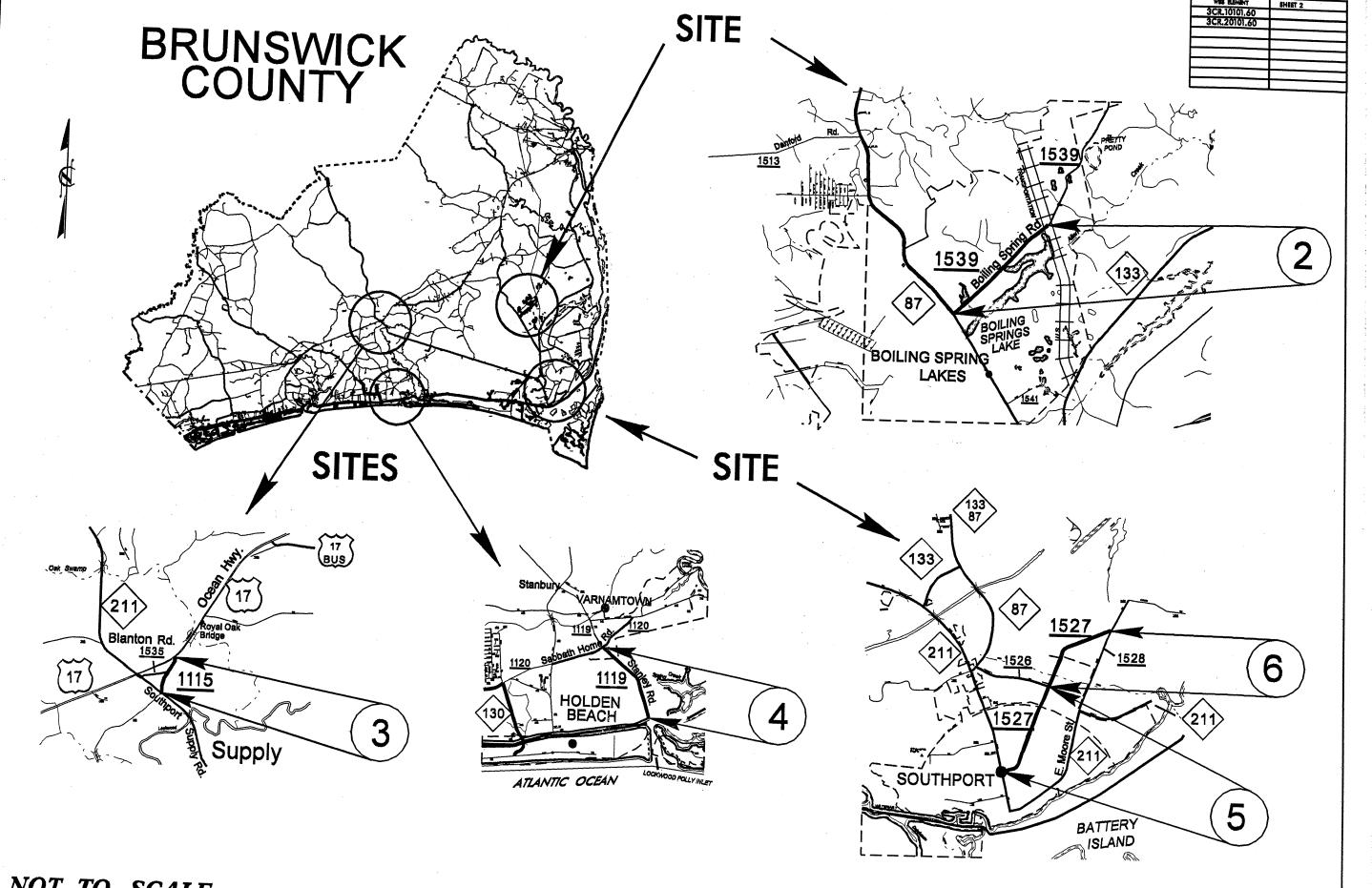
BRUNSWICK COUNTY



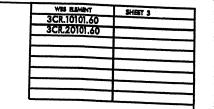


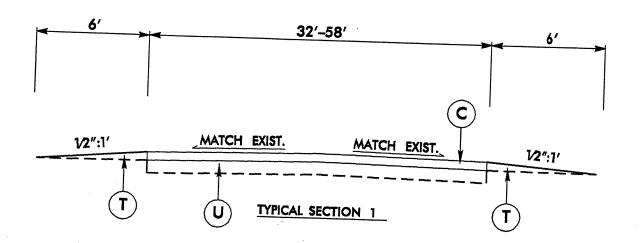
NOT TO SCALE

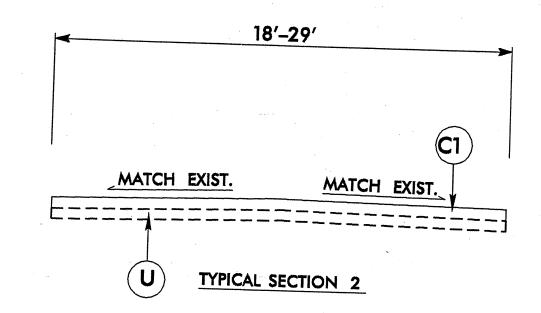
- 2006 UB:45

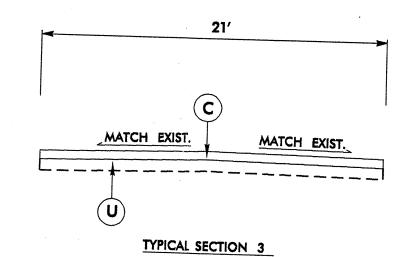


NOT TO SCALE





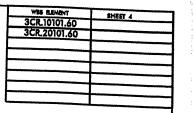


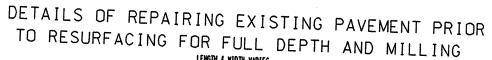


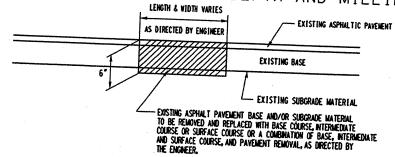
	PAVEMENT SCHEDULE
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.58, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD.
C1	PROP. APPROX. 1½" ASPHALT CONGRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 185 LBS. PER SQ. YD.
т_	EARTH NATERIAL.
U_	EXISTING PAYEMENT.

NOT TO SCALE

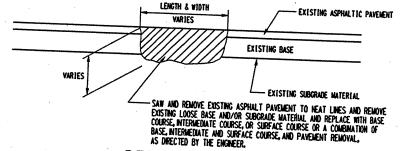
.cschoonmaker AT D3CAD2379



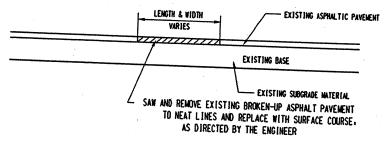




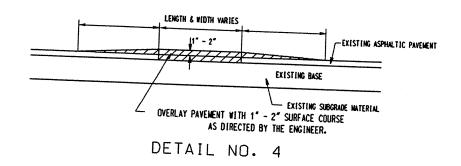
DETAIL NO. 1

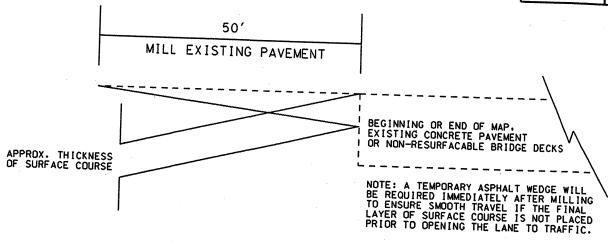


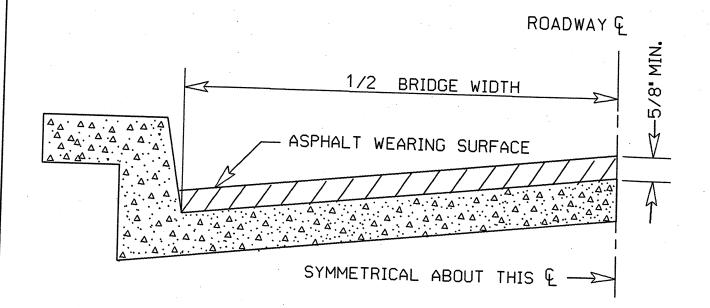
DETAIL NO. 2



DETAIL NO. 3







BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

SHEET

GENERAL NOTES (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:

- A. TRUCK MOUNTED ADVANCE WARNING SIGNS
 B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 (MUST USE 'NEXT 10 MILES' AND CIRCLE TO
 PICK UP SIGNS)
 D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE 'NEXT 10 MILES' AND CIRCLE TO
 PICK UP CMS)
- (2) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES. HOWEVER, THE FIRST VEHICLE MOTORISTS
- (3) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED TEN (10) MILES IN LENGTH.
- (4) SIGNS SHOULD BE ACTIVITY SPECIFIC i.s., PAINT CREW AHEAD (W21-001 C 48"X48")
- (5) DISTANCE BETWEEN APPLICATION VEHICLE AND PROTECTION VEHICLE WILL VARY AS DRYING TIMES VARY, HOWEVER, THE CRITICAL FACTOR IS PASSING MOTORISTS. IF THE GAP BETWEEN VEHICLES IS TOO GREAT, MOTORISTS WILL ATTEMPT TO PASS AND ULTIMATELY APPEAR IN THE MIDDLE OF THE OPERATION.
- (8) MOUNTING HEIGHT DIMENSIONS FROM ROADWAY TO SIGN SHOULD BE A MINIMUM OF FIVE (5) FEET FOR INTERSTATES, OTHER HIGH VOLUME ROADWAYS, OR ROADWAYS THAT MAY REQUIRE A MOUNTING HEIGHT OF FIVE (5) FEET FOR INCREASED VISIBILITY AND A MINIMUM OF ONE (1) FOOT FOR ALL OTHER ROADWAYS.
- (7) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

- (8) USE AN ADVANCE WARNING VEHICLE(S) WITH FLASHING ARROW PANELS ON SHOULDERS TO SUPPLEMENT TRAFFIC SHIFTS. USE OF CMS ON THIS
- (9) SIGN W20-5L SHOULD BE PLACED ON BACK OF PROTECTION VEHICLE AND SIGN W20-5LD ON BACK OF ADVANCE WARNING VEHICLE IN MULTILANE NOTIFIED OF OPERATION.
- (10) RADIO COMMUNICATION BETWEEN VEHICLES IS RECOMMENDED.
- (11) USE OF A LIGHT BAR ON THE ADVANCE WARNING VEHICLE IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (12) USE OF A CMS ON ADVANCED WARNING VEHICLES IS OPTIONAL.
- (13) IF WORK IS PERFORMED AT NIGHT, THE FOLLOWING PROVISIONS MUST BE MADE:
 - A. GROUND MOUNTED SIGNS MUST HAVE TYPE B FLASHING LIGHTS
 ATTACHED (TRUCK MOUNTED SIGNS DO NOT REQUIRE TYPE B
 FLASHING LIGHTS)
 B. OPERATION MUST INCLUDE A CHANGEABLE MESSAGE SIGN (CMS)
 C. WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER
 LIGHTS AS APPROVED BY THE ENGINEER.
- (14) USE A TYPE "B" FLASHING ARROW PANEL.

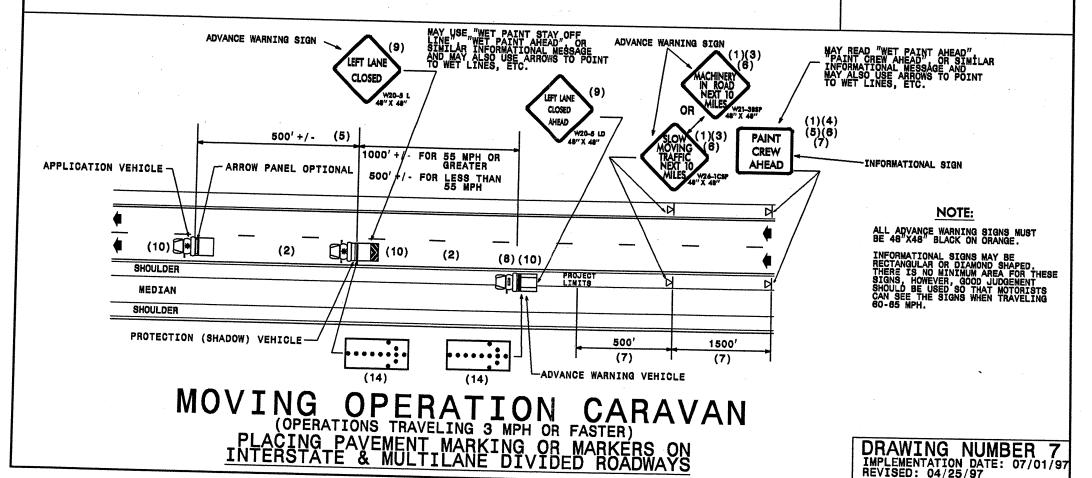
PANEL TYPE MIN. SIZE

60"X30"

LEGEND

- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW
- APPLICATION VEHICLE WITH ROTATING BEACON
- OTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND ROTATING BEACON (SEE ROADWAY STANDARD NO. 1185.01
- ADVANCE WARNING VEHICLE 1.9 PICKUP TRUCK WITH MOUNTED SIGN
- ••••• FLASHING ARROW PANEL, TYPE "B"
 APPROPRIATE DIRECTION INDICATED

DRAWING NUMBER 7
IMPLEMENTATION DATE: 07/01/97
REVISED: 04/25/97



PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.1010.60, 3CR.20101.60	6	

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LENGTH	WIDTH	BORROW EXC	STONE	SHOULDER RECON-	MILLING	COURSE,	COURSE,		LEVELING COURSE, SF9.5A	PLANT	PATCHING EXISTING PAVEMENT	EXISTING	MANHOLES	ADJUST METER OR	SILT	FOR EC	SEDIMENT CONTROL STONE			FOR TEMP	1/4" HARDWARE CLOTH	SEED & MULCHING	
•									BASE	STRUCTION		S9.5B	S9.5B	SF9.5A	5F9.5A	MIX	(MILL)	(FULL DEPTH)		VALVE BOX	PENCE	CLASS B	STONE		SEEDING	SEEDING			
NO		NO			NO	MI	FT	CY	TONS	SMI	SY	TONS	TONS	TONS	TONS	TONS	TON	TONS	EA	EA	LF	TON	TON	ACR	LBS	TON	LF	AC	LS
				0.43 MILES WEST OF SR													1												
				1500(MIDWAY RD) TO 0.161 MILES		I					I	1	1		1		1			1		l							
CR.10101.60	Brunswick	1	NC 211	EAST OF SR 1114 (ZION HILL RD)		1			256		1			1	1	1	558	62			595	149	149	5.95	298	1.49	298		1.00
		11	"	FULL WIDTH	1	2.788	32	1773		5.58	178	5076		1		305												4.74	
				TAPER 32' TO 45'	1		39	41		0.13		142				9												0.11	
		-	"	FULL WIDTH	1	0.063	45	40	1	0.13		161	1			10												0.11	
		-		FULL WIDTH	1	0.032	57	20		0.06		104	1			6			1									0.05	
		"	"	TAPER 57' TO 32'	1	0.063	45	39	1	0.13		161				10												0.11	
		 "	11	FULL WIDTH	1	0.199	32	127	1	0.4		362	<u> </u>			22												0.34	
		"	н	TAPER 32' TO 36'	1	0.064	34	40	1	0.13	1	124		1		7				1				Ĭ .				0.11	
		"	11	FULL WIDTH	1	0.083	36	53		0.17		170				10							1					0.14	1
		"		TAPER 36' TO 32'	1	0.063	34	40		0.13	1	122	1			7					T :							0.11	
				FULL WIDTH (MP 3.419-4.241, 4.470-4.777, 4.996-5.056) (NO																									
				WORK MP 4.241-4.470, 4.777-							1		İ	1	1						1				i		1	0.00	ŀ
		-	"	4.996)	1	1.189	32	756	ļ	2.38	1	2165		 		130		ļ		ļ	 	<u> </u>		 			ļ	2.02	ļ
	<u> </u>			TAPER 32' TO 58'	1		45	31		0.1	1	125			1	8			ļ	ļ	 	 	ļ	 	ļ	ļ		0.08	
	l	"	"	FULL WIDTH	1		58	32		0.1		165	ļ	<u> </u>	<u> </u>	10		ļ	<u> </u>		 		ļ	ļ				0.09	
		" "	"	FULL WIDTH	1		45	24		0.07		95	<u> </u>		ļ	6	<u> </u>			<u> </u>	ļ	<u> </u>		ļ	<u> </u>	ļ		0.06	
		n	11	TAPER 45' TO 32'	1			47		0.15	<u> </u>	164			ļ	10		L		ļ	ļ	ļ	ļ	<u> </u>				0.13	
		"	"	FULL WIDTH	1	0.686	32	436	<u> </u>	1.37	178	1249				75	1	ļ	<u> </u>				<u> </u>	<u> </u>		ļ		1.17	1
	L FOR MA					5.504	<u> </u>	3499	256	11.03	356	10385		ļ		625	558	62			595	149	149	5.95	298	1.49	298	9.37	1.00
TOTAL FOR	R PROJ NO	. 3CR.	1010.60	<u> </u>		5.504	<u> </u>	3499	256	11.03	356	10385	1	<u> </u>	J	625	558	62	<u> </u>	<u> </u>	595	149	149	5.95	298	1.49	298	9.37	1.00
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CR.20101.60	Brunswick					2.23	18	<u> </u>	216		200		ļ	2250	- 30	148	1260	126			 			 	ļ	ļ.,	ļ	<u> </u>	
			SR 1115		2		22		10					517	40	36	44	<u> </u>	<u> </u>				4	ļ	ļ	ļ	ļ		
		4	SR 1119	END MAINTENANCE TO SR 1120			19		36	L				1182	J	77	336	35				<u> </u>		<u> </u>		ļ	<u> </u>		
		"	11	FULL WIDTH	2		29	1			1			65	<u> </u>	4								<u> </u>	ļ	<u> </u>		ļ	
		"	"	TAPER 19' TO 29'	2		24	1						40		3	ļ	<u> </u>			ļ	ļ	 			ļ		<u> </u>	
TOTA	L FOR MA					1.18		0	36	0	0	0		1287	0	84	336	35		1	0	0	0	0	0	0	0	0	0
			SR 1527	NC 211 TO SR 1526	2		18	1	152	1			1	1059		69	200	28	5	4		ļ	<u> </u>	4	 		_	 	
			SR 1527	SR 1526 TO SR 1528	3		21	1	40			1113	30	1	<u> </u>	69	618	62	2	1 1		<u> </u>			ļ			<u> </u>	
TOTAL FOR	PROJ NO.	3CR.2	0101.60			5.81		0	454	0	200	1113	30	5113	70	406	2458	251	7	5	0	0	0	1 0	0	0	0	1 0	1 0
,																													
G	RAND TO	ΤΔΙ			T	11.314		3499	710	11.03	556	11498	30	5113	70	1031	3016	313	7	5	595	149	149	5.95	298	1.49	298	9.37	1.00

PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.1010.60, 3CR.20101.60	7	

THERMOPLASTIC AND PAINT QUANTITIES

	T	1	Γ	T T T T T T T T T T T T T T T T T T T	4685000000-E	468600	0000-E	4695000000-E	4697000000-E		4725000000-E	:	48100	00000-E	4830000000-E	4835000000-E	4840000000-N	48450	00000-N		00000-N	4905000000-N	4905000000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	4" X 90 M WHITE	4" X 120 M	4" X 120 M	8" X 90 M	8" X 120 M	THERMO LT	THERMO RT	THERMO	4" WHITE	4" YELLOW	16" WHITE PAINT	7 24" WHITE PAINT	PAINT MSG RXR	PAINT LT	PAINT RT			SNOW PLOWABLE	
					THERMO	YELLOW	WHITE	YELLOW	YELLOW	ARROW	ARROW	STR ARROW	PAINT	PAINT	1.		1	ARROW	ARROW	YELLOW	MARKERS	MARKERS (Y/Y)	PLOWABLE
						THERMO	THERMO	THERMO	THERMO	90 M	90 M	90 M	ļ							MARKERS		ļ.	MARKERS
		ı										1						1	1				(C/R) EA
NO		NO			LF	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA
												ĺ						1				i .	
				0.43 MILES WEST OF SR															l	l			
		1		1500(MIDWAY RD) TO 0.161 MILES				1															
3CR.10101.60	Brunswick	k 1	NC 211	EAST OF SR 1114 (ZION HILL RD)			L			<u> </u>						<u> </u>							
		н	"	FULL WIDTH	30,556	18,401																184	<u> </u>
		"	"	TAPER 32' TO 45'	701	1,352		45									<u> </u>					8	
		"	"	FULL WIDTH	690	1,331	187	95		2												8	17
		"	"	FULL WIDTH	351	676	84	90			2	2										4	8
		"	**	TAPER 57' TO 32'	690	1,331	42		45													8	
		"	"	FULL WIDTH	2,181	2,101																13	
		"	"	TAPER 32' TO 36'	701	1,352		45														8	
		"	"	FULL WIDTH	910	1,753	274	100		3	2	2										11	22
		"	11	TAPER 36' TO 32'	690	1,331	42	45					L									8	
				FULL WIDTH (MP 3.419-4.241,										1					İ	İ	1		
				4.470-4.777, 4.996-5.056) (NO									1	1								1	
				WORK MP 4.241-4.470, 4.777-								1											
		"	"	4.996)	13,031	7,847								<u> </u>								78	
	<u> </u>	"	- 11	TAPER 32' TO 58'	537	1,035	32	45											L	<u></u>		6	
	†	"	"	FULL WIDTH	548	1,056	264	90		2	2	2						1				7	13
	<u> </u>	"	"	FULL WIDTH	406	781	110	90														5	10
	1	11	"	TAPER 45' TO 32'	811	1,563	49	35								1			1			10	<u> </u>
		"	"	FULL WIDTH	7,519	7,244																45	
TOTA	L FOR MA	AP NO.	1		60,322	49,154	1,084	680	45	7	6	6										403	70
TOTAL FOR	2 222 1 112	200	1010 60		60,322	49,154	1,084	680	45	7	6	6		<u></u>					<u> </u>		L	403	70
IOTAL FOR	K PROJ NC	J. JUR.	1010.00			50	,238				19		<u> </u>		<u> </u>		1			<u> </u>		<u> </u>	<u> </u>
												·					·		·				
3CR.20101.60	Brunswic					<u> </u>	<u></u>					<u> </u>	47,990	47,098	100	100	44			147	ļ		
			SR 111			<u> </u>							9,038	8,870		52		2	2	28			
			SR 111	END MAINTENANCE TO SR 1120	L				<u> </u>	· .		Ļ	23,887	23,443					ļ	73	ļ		
		"	"	FULL WIDTH		1							1,100	845					ļ	3	5		
		"	"	TAPER 19' TO 29'								<u> </u>	640	634					<u> </u>	2		ļ	
TOTA	AL FOR MA												25,627	24,922						78	5	 	
		5	SR 152					1					22,596	22,176						69			
		6	SR 152	SR 1526 TO SR 1528			L						20,014						ļ	61	ļ		
TOTAL FOR	DDO I NO) 2CD 2	0101 60								<u> </u>	1	125,265	103,066	100	152	4	2	2	383	5		
IOIALPOR	L KOJ NO	J. JUK.2	.0101.00						<u></u>				22	28,331	<u> </u>	_1		_1	4		388	<u> </u>	
															- 				·				
	GRAND TO	TAI			60,322	49,154	1,084	680	45	7	6	6	125,265	103,066	100	152	4	2	1 2	383	5	403	70
٠	SIVAND IO	/IAL				50	,238			1	19		22	28,331					4		388	47	3

PROJ. REFERENCE NO. SHEET NO. 3CR.10101.60 8 TCP-1 3CR.20101.6

TRANSPORTATION

9F

DEPT

HIGHWAY

DIVISION OF

GNS

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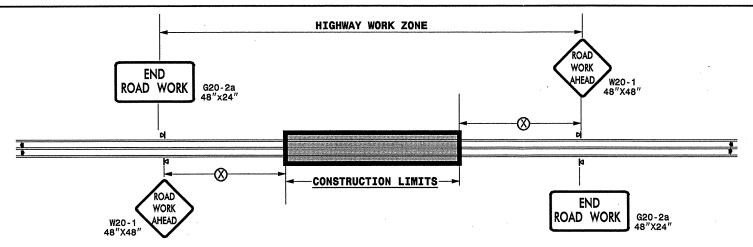
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RALEIGH,

CAROLINA

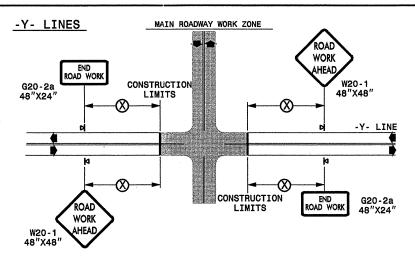
9F





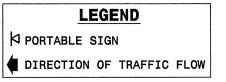
	RECOMMENDED Minimum Sign Spacing
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500′
≥ 55	1000′

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



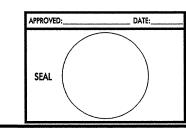
GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.



UNDIVIDED DRAWING WARNIN TWO-WAY DETAIL ZON WORK FOR

SHEET 1 OF 1



FOR	DETAI		WING NDIVIDED	
ADVANCED				
NONE		- ° ° ′ ′		REVISIO

NE	OHOLHER T
	C CONTROL

REVI	SIONS
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	